Computer Networks Group - Meeting Report

Date: December 10th, 2012 - 2 pm.
Location: LISHA
Attendees: Arliones, Peterson, Renato, Rodrigo

Meeting Agenda

Meeting type: Scientific report
Presenter: Peterson Oliveira
Talk title: Time-Synchronization for the EPOS System (TCC preview)
Talk abstract:
Time Synchronization is a pertinent field of study to fulfill the OS requirements af many distributed applications. In this work, we implemented the IEEE 1588 protocol - Precision Time Protocol - for the EPOS operating system to deliver the clock time among a wireless sensor network. For test purposes, we choose a topology consisted of one master clock and another slave clock. We made two configurations: one in which we have two previously synchronized clocks, to evaluate their behavior among time after some synchronizations. On the other configuration, we delayed the slave clock in some hours and analysed the behavior of the protocol after some iterations. With the results obtained we can ensure the viability of the protocol implementation to the EPOS operating system and consequently to embedded systems.